

Title (en)  
Thermal printer

Title (de)  
Wärmedrucker

Title (fr)  
Imprimante thermique

Publication  
**EP 2070708 A2 20090617 (EN)**

Application  
**EP 08171254 A 20081210**

Priority  
JP 2007323595 A 20071214

Abstract (en)  
In order to prevent a platen roller and shaft bearings from accidentally coming off from notches to improve reliability of a thermal printer, Provided is a thermal printer, including: a main body frame (2); a thermal head swingably mounted to the main body frame (2); a platen roller (6) which is disposed so as to be opposed to a printing surface of the thermal head and sandwiches thermal paper with the thermal head to feed the thermal paper; and a lock arm (5) which is swingably mounted to a supporting shaft (3) mounted to the main body frame (2) and presses shaft bearings (9) rotatably supporting the platen roller (6) to a thermal head side to lock the platen roller (6) with notches (10) formed in the main body frame (2), in which the lock arm (5) is provided, on the tip end portion thereof, with a first inclined surface (5d) which, when the platen roller (6) and the shaft bearings (9) are moved toward openings of the notches (10), comes into contact with the outer peripheral surface of each of the shaft bearings (9) and generates a force in a direction of opening the lock arm (5).

IPC 8 full level  
**B41J 2/32** (2006.01); **B41J 2/335** (2006.01); **B42B 5/10** (2006.01); **B42F 3/04** (2006.01); **B42F 13/16** (2006.01)

CPC (source: EP KR US)  
**B41J 2/01** (2013.01 - KR); **B41J 2/05** (2013.01 - KR); **B41J 2/32** (2013.01 - EP US); **B41J 11/00** (2013.01 - KR); **B41J 11/02** (2013.01 - KR); **B41J 2202/31** (2013.01 - EP US)

Citation (applicant)  
JP 2000318260 A 20001121 - SEIKO INSTR INC

Cited by  
EP2821234A4

Designated contracting state (EPC)  
DE FR IT

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2070708 A2 20090617**; **EP 2070708 A3 20100804**; **EP 2070708 B1 20120418**; CN 101456296 A 20090617; CN 101456296 B 20121114; JP 2009143133 A 20090702; KR 101444467 B1 20140924; KR 20090064317 A 20090618; US 2009153640 A1 20090618; US 8111274 B2 20120207

DOCDB simple family (application)  
**EP 08171254 A 20081210**; CN 200810186804 A 20081212; JP 2007323595 A 20071214; KR 20080125874 A 20081211; US 31563308 A 20081204